34. The catheter of claim 33 wherein the syringe is actuated by a mechanical actuator.

35. The catheter of claim 34, wherein the syringe is actuated pneumatically.

36. The catheter of claim 30, wherein the means for generating high transient pressure in the fluid is and automated high pressure injection system.

37. The catheter of claim 30 wherein the means for generating a high transient pressure in a fluid is a transdermal injection device.

REMARKS

The specification has been amended to claim priority of copending Serial No. 09/46,456, of which this is a continuation. Claims 1-18 have been deleted and new claims 19-37 have been added.

The Examiner is invited to call the undersigned at (202) 220-4232 to discuss any information concerning this application.

An Information Disclosure Statement is submitted herewith. The Information Disclosure Statement lists the references considered by the Examiner in the parent application.

The Office is hereby authorized to charge any fees under 37 C.F.R. § 1.16 or § 1.17 or to credit any overpayment to Deposit Account No. 11-0600.

Respectfully submitted,

Dated: December 10, 2001

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MARKED-UP VERSION OF SPECIFICATION AMENDMENT

Page 1, first paragraph:

This is a continuation of U.S. Patent Application Serial No. 09/456,456, filed December 8, 1999. This application is related to co-pending patent application serial number 09/457,454 filed on [even date herewith] December 8, 1999, entitled INJECTION ARRAY APPARATUS AND METHOD, co-pending patent application serial number 09/457,453 filed on [even date herewith] December 8, 1999, entitled LATERAL NEEDLE INJECTION APPARATUS AND METHOD, and co-pending patent application serial number 09/457,193 filed on [even date herewith] December 8, 1999, entitled LATERAL NEEDLE-LESS INJECTION APPARATUS AND METHOD.